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By: Joyce Abriam Printed: Joyce Abriam

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Tang et al.

Title: NEURON-ASSOCIATED PROTEINS

Serial No.: 09/857,826

Filing Date:

To Be Assigned

Examiner: To Be Assigned

Group Art Unit:

To Be Assigned

United States Patent and Trademark Office
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Arlington, VA 22202

SUBSTITUTE SUBMISSION UNDER 37 CFR § 1.821- 1.825 SEQUENCE LISTING

Sir:

In accordance with the requirements of 37 CFR § 1.821-1.825, Applicants hereby submit one (1) substitute diskette containing the computer-readable information for the Substitute Sequence Listing of the above-identified application. The substitute diskette complies with the requirements of 37 CFR § 1.824 and is IBM PC compatible using a Windows NT Operating System with WordPerfect software and saved in ASCII text format.

Enclosed is a paper copy of the Substitute Sequence Listing.

The content of the Substitute Sequence Listing paper copy is identical to the computer-readable copy, as required under 37 CFR § 1.821(f). No new data has been added.

Respectfully submitted,

INCYTE GENOMICS, INC.

Date:

9 Oct 2002

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PF-0637 USN



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YUE, Henry
BAUGHN, Mariah R.
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YANG, Junming
LU, Dyung Aina M.
AZIMZAI, Yalda

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PF-0637 USN

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PF-0637 USN

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PF-0637 USN

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PF-0637 USN

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PF-0637 USN

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Lys	Leu	Arg	Phe	Val	Leu	Thr	Tyr	Ile	Ala	Pro	Trp	Gln	Ile	Thr
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Val Leu Gly Arg Trp Gly Asn Tyr Gly Pro Gly Asp Cys Phe Val	185	190	195
Leu Ala Ser Asp Tyr Leu Asn Ala Leu Val His Leu Ile Glu Val	200	205	210
Gly Asn Gly Leu Val Thr Phe Gln Leu Arg Gly Leu Glu Phe Arg	215	220	225
Gly Thr Tyr Cys Gln Gln Arg Glu Val Glu Ala Ile Thr Glu Gly	230	235	240
Val Glu Glu Asp Glu Gly Cys Cys Cys Cys Glu Pro Gly His Leu	245	250	255
Pro Arg Val Leu Ser Phe Asn Ala Ala Phe Gly Gln Arg Trp Leu	260	265	270
Ala Trp Glu Val Thr Ala Ser Lys Tyr Val Leu Glu Gly Tyr Ser	275	280	285
Ile Ser Asp Asn Asn Ala Ala Ser Met Leu Gln Val Phe Asp Leu	290	295	300
Arg Lys Ile Leu Ile Thr Tyr Tyr Val Lys Ser Ile Ile Tyr Tyr	305	310	315
Val Ser Arg Ser Pro Lys Leu Glu Val Trp Leu Ser His Glu Gly	320	325	330
Ile Thr Ala Ala Leu Arg Pro Val Arg Val Pro Gly Tyr Ala Asp	335	340	345
Ser Asp Pro Thr Phe Ser Leu Ser Val Asp Glu Asp Tyr Asp Leu	350	355	360
Arg Leu Ser Gly Leu Ser Leu Pro Ser Phe Cys Ala Val His Leu	365	370	375
Glu Trp Ile Gln Tyr Cys Ala Ser Arg Arg Thr Arg Pro Val Asp	380	385	390
Gln Asp Trp Asn Ser Pro Leu Val Thr Leu Cys Phe Gly Leu Cys	395	400	405
Val Leu Gly Arg Arg Ala Leu Gly Thr Ala Ser His Ser Met Ser	410	415	420
Ala Ser Leu Glu Pro Phe Leu Tyr Gly Leu His Ala Leu Phe Lys	425	430	435
Gly Asp Phe Arg Ile Thr Ser Pro Arg Asp Glu Trp Val Phe Ala	440	445	450
Asp Met Asp Leu Leu His Arg Val Val Ala Pro Gly Val Arg Met	455	460	465
Ala Leu Lys Leu His Gln Asp His Phe Thr Ser Pro Asp Glu Tyr	470	475	480
Glu Glu Pro Ala Ala Leu Tyr Asp Ala Ile Ala Ala Asn Glu Glu	485	490	495
Arg Leu Val Ile Ser His Glu Gly Asp Pro Ala Trp Arg Ser Ala	500	505	510
Ile Leu Ser Asn Thr Pro Ser Leu Leu Ala Leu Arg His Val Leu	515	520	525
Asp Asp Ala Ser Asp Glu Tyr Lys Ile Ile Met Leu Asn Arg Arg	530	535	540
His Leu Ser Phe Arg Val Ile Lys Val Asn Arg Glu Cys Val Arg	545	550	555
Gly Leu Trp Ala Gly Gln Gln Gln Glu Leu Val Phe Leu Arg Asn	560	565	570

PF-0637 USN

Arg	Asn	Pro	Glu	Arg	Gly	Ser	Ile	Gln	Asn	Ala	Lys	Gln	Ala	Leu
				575					580					585
Arg	Asn	Met	Ile	Asn	Ser	Ser	Cys	Asp	Gln	Pro	Leu	Gly	Tyr	Pro
				590					595					600
Ile	Tyr	Val	Ser	Pro	Leu	Thr	Thr	Ser	Leu	Ala	Gly	Ser	His	Pro
				605					610					615
Gln	Leu	Arg	Ala	Leu	Trp	Gly	Gly	Pro	Ile	Ser	Leu	Gly	Ala	Ile
				620					625					630
Ala	His	Trp	Leu	Leu	Arg	Thr	Trp	Glu	Arg	Leu	His	Lys	Gly	Cys
				635					640					645
Gly	Ala	Gly	Cys	Asn	Ser	Gly	Gly	Asn	Val	Asp	Asp	Ser	Asp	Cys
				650					655					660
Ser	Gly	Gly	Gly	Gly	Leu	Thr	Ser	Leu	Ser	Asn	Asn	Pro	Pro	Val
				665					670					675
Ala	His	Pro	Thr	Pro	Glu	Asn	Thr	Ala	Gly	Asn	Gly	Asp	Gln	Pro
				680					685					690
Leu	Pro	Pro	Gly	Pro	Gly	Trp	Gly	Pro	Arg	Ser	Ser	Leu	Ser	Gly
				695					700					705
Ser	Gly	Asp	Gly	Arg	Pro	Pro	Pro	Leu	Leu	Gln	Trp	Pro	Pro	Pro
				710					715					720
Arg	Leu	Pro	Gly	Pro	Pro	Pro	Ala	Ser	Pro	Ile	Pro	Thr	Glu	Gly
				725					730					735
Pro	Arg	Thr	Ser	Arg	Pro	Pro	Gly	Pro	Gly	Leu	Leu	Ser	Ser	Glu
				740					745					750
Gly	Pro	Ser	Gly	Lys	Trp	Ser	Leu	Gly	Gly	Arg	Lys	Gly	Leu	Gly
				755					760					765
Gly	Ser	Asp	Gly	Glu	Pro	Ala	Ser	Gly	Ser	Pro	Lys	Gly	Gly	Thr
				770					775					780
Pro	Lys	Ser	Gln	Val	Arg	His	Leu	Trp	Glu	Gly	Trp	Val	Pro	Glu
				785					790					795

Gly

<210> 11

<211> 854

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2888437CD1

<400> 11

Met	Lys	Cys	Leu	Tyr	Tyr	Leu	Tyr	Ala	Ser	Leu	Asp	Pro	Asn	Ala
1				5					10					15
Val	Lys	Ala	Leu	Asn	Glu	Met	Trp	Lys	Cys	Gln	Asn	Met	Leu	Arg
				20					25					30
Ile	His	Val	Arg	Glu	Leu	Leu	Asp	Leu	His	Lys	Gln	Pro	Thr	Ser
				35					40					45
Glu	Ala	Asn	Cys	Ser	Ala	Met	Phe	Gly	Lys	Leu	Met	Thr	Ile	Ala
				50					55					60
Lys	Asn	Leu	Pro	Asp	Pro	Gly	Lys	Ala	Gln	Asp	Phe	Val	Lys	Lys
				65					70					75
Phe	Asn	Gln	Val	Leu	Gly	Asp	Asp	Glu	Lys	Leu	Arg	Ser	Gln	Leu

	80	85	90
Glu Leu Leu Ile Ser Pro Thr Cys Ser Cys Lys Gln Ala Asp Ile	95	100	105
Cys Val Arg Glu Ile Ala Arg Lys Leu Ala Asn Pro Lys Gln Pro	110	115	120
Thr Asn Pro Phe Leu Glu Met Val Lys Phe Leu Leu Glu Arg Ile	125	130	135
Ala Pro Val His Ile Asp Ser Glu Ala Ile Ser Ala Leu Val Lys	140	145	150
Leu Met Asn Lys Ser Ile Glu Gly Thr Ala Asp Asp Glu Glu Glu	155	160	165
Gly Val Ser Pro Asp Thr Ala Ile Arg Ser Gly Leu Glu Leu Leu	170	175	180
Lys Val Leu Ser Phe Thr His Pro Thr Ser Phe His Ser Ala Glu	185	190	195
Thr Tyr Glu Ser Leu Leu Gln Cys Leu Arg Met Glu Asp Asp Lys	200	205	210
Val Ala Glu Ala Ala Ile Gln Ile Phe Arg Asn Thr Gly His Lys	215	220	225
Ile Glu Thr Asp Leu Pro Gln Ile Arg Ser Thr Leu Ile Pro Ile	230	235	240
Leu His Gln Lys Ala Lys Arg Gly Thr Pro His Gln Ala Lys Gln	245	250	255
Ala Val His Cys Ile His Ala Ile Phe Thr Asn Lys Glu Val Gln	260	265	270
Leu Ala Gln Ile Phe Glu Pro Leu Ser Arg Ser Leu Asn Ala Asp	275	280	285
Val Pro Glu Gln Leu Ile Thr Pro Leu Val Ser Leu Gly His Ile	290	295	300
Ser Met Leu Ala Pro Asp Gln Phe Ala Ser Pro Met Lys Ser Val	305	310	315
Val Ala Asn Phe Ile Val Lys Asp Leu Leu Met Asn Asp Arg Ser	320	325	330
Thr Gly Glu Lys Asn Gly Lys Leu Trp Ser Pro Asp Glu Glu Val	335	340	345
Ser Pro Glu Val Leu Ala Lys Val Gln Ala Ile Lys Leu Leu Val	350	355	360
Arg Trp Leu Leu Gly Met Lys Asn Asn Gln Ser Lys Ser Ala Asn	365	370	375
Ser Thr Leu Arg Leu Leu Ser Ala Met Leu Val Ser Glu Gly Asp	380	385	390
Leu Thr Glu Gln Lys Arg Ile Ser Lys Ser Asp Met Ser Arg Leu	395	400	405
Arg Leu Ala Ala Gly Ser Ala Ile Met Lys Leu Ala Gln Glu Pro	410	415	420
Cys Tyr His Glu Ile Ile Thr Pro Glu Gln Phe Gln Leu Cys Ala	425	430	435
Leu Val Ile Asn Asp Glu Cys Tyr Gln Val Arg Gln Ile Phe Ala	440	445	450
Gln Lys Leu His Lys Ala Leu Val Lys Leu Leu Leu Pro Leu Glu	455	460	465
Tyr Met Ala Ile Phe Ala Leu Cys Ala Lys Asp Pro Val Lys Glu	470	475	480
Arg Arg Ala His Ala Arg Gln Cys Leu Leu Lys Asn Ile Ser Ile			

PF-0637 USN

	485		490		495
Arg Arg Glu Tyr	Ile Lys Gln Asn Pro	Met Ala Thr Glu Lys	Leu		
	500		505		510
Leu Ser Leu Leu	Pro Glu Tyr Val Val	Pro Tyr Met Ile His	Leu		
	515		520		525
Leu Ala His Asp	Pro Asp Phe Thr Arg	Ser Gln Asp Val Asp	Gln		
	530		535		540
Leu Arg Asp Ile	Lys Glu Cys Leu Trp	Phe Met Leu Glu Val	Leu		
	545		550		555
Met Thr Lys Asn	Glu Asn Asn Ser His	Ala Phe Met Lys Lys	Met		
	560		565		570
Ala Glu Asn Ile	Lys Leu Thr Arg Asp	Ala Gln Ser Pro Asp	Glu		
	575		580		585
Ser Lys Thr Asn	Glu Lys Leu Tyr Thr	Val Cys Asp Val Ala	Leu		
	590		595		600
Cys Val Ile Asn	Ser Lys Ser Ala Leu	Cys Asn Ala Asp Ser	Pro		
	605		610		615
Lys Asp Pro Val	Leu Pro Met Lys Phe	Phe Thr Gln Pro Glu	Lys		
	620		625		630
Asp Phe Cys Asn	Asp Lys Ser Tyr Ile	Ser Glu Glu Thr Arg	Val		
	635		640		645
Leu Leu Leu Thr	Gly Lys Pro Lys Pro	Ala Gly Val Leu Gly	Ala		
	650		655		660
Val Asn Lys Pro	Leu Ser Ala Thr Gly	Arg Lys Pro Tyr Val	Arg		
	665		670		675
Ser Thr Gly Thr	Glu Thr Gly Ser Asn	Ile Asn Val Asn Ser	Glu		
	680		685		690
Leu Asn Pro Ser	Thr Gly Asn Arg Ser	Arg Glu Gln Ser Ser	Glu		
	695		700		705
Ala Ala Glu Thr	Gly Val Ser Glu Asn	Glu Glu Asn Pro Val	Arg		
	710		715		720
Ile Ile Ser Val	Thr Pro Val Lys Asn	Ile Asp Pro Val Lys	Asn		
	725		730		735
Lys Glu Ile Asn	Ser Asp Gln Ala Thr	Gln Gly Asn Ile Ser	Ser		
	740		745		750
Asp Arg Gly Lys	Lys Arg Thr Val Thr	Ala Ala Gly Ala Glu	Asn		
	755		760		765
Ile Gln Gln Lys	Thr Asp Glu Lys Val	Asp Glu Ser Gly Pro	Pro		
	770		775		780
Ala Pro Ser Lys	Pro Arg Arg Gly Arg	Arg Pro Lys Ser Glu	Ser		
	785		790		795
Gln Gly Asn Ala	Thr Lys Asn Asp Asp	Leu Asn Lys Pro Ile	Asn		
	800		805		810
Lys Gly Arg Lys	Arg Ala Ala Val Gly	Gln Glu Ser Pro Gly	Gly		
	815		820		825
Leu Glu Ala Gly	Asn Ala Lys Ala Pro	Lys Leu Gln Asp Leu	Ala		
	830		835		840
Lys Lys Ala Ala	Pro Ala Glu Arg Gln	Ile Asp Leu Gln Arg			
	845		850		

<210> 12

<211> 856

<212> PRT

<213> Homo sapiens

PF-0637 USN

<220>

<221> misc_feature

<223> Incyte ID No: 3201753CD1

<400> 12

Met	Arg	Gly	Ile	Phe	Ile	Lys	His	Val	Leu	Glu	Asp	Ser	Pro	Ala	
1				5					10					15	
Gly	Lys	Asn	Gly	Thr	Leu	Lys	Pro	Gly	Asp	Arg	Ile	Val	Glu	Val	
				20					25					30	
Asp	Gly	Met	Asp	Leu	Arg	Asp	Ala	Ser	His	Glu	Gln	Ala	Val	Glu	
				35					40					45	
Ala	Ile	Arg	Lys	Ala	Gly	Asn	Pro	Val	Val	Phe	Met	Val	Gln	Ser	
				50					55					60	
Ile	Ile	Asn	Arg	Pro	Arg	Ala	Pro	Ser	Gln	Ser	Glu	Ser	Glu	Pro	
				65					70					75	
Glu	Lys	Ala	Pro	Leu	Cys	Ser	Val	Pro	Pro	Pro	Pro	Pro	Ser	Ala	
				80					85					90	
Phe	Ala	Glu	Met	Gly	Ser	Asp	His	Thr	Gln	Ser	Ser	Ala	Ser	Lys	
				95					100					105	
Ile	Ser	Gln	Asp	Val	Asp	Lys	Glu	Asp	Glu	Phe	Gly	Tyr	Ser	Trp	
				110					115					120	
Lys	Asn	Ile	Arg	Glu	Arg	Tyr	Gly	Thr	Leu	Thr	Gly	Glu	Leu	His	
				125					130					135	
Met	Ile	Glu	Leu	Glu	Lys	Gly	His	Ser	Gly	Leu	Gly	Leu	Ser	Leu	
				140					145					150	
Ala	Gly	Asn	Lys	Asp	Arg	Ser	Arg	Met	Ser	Val	Phe	Ile	Val	Gly	
				155					160					165	
Ile	Asp	Pro	Asn	Gly	Ala	Ala	Gly	Lys	Asp	Gly	Arg	Leu	Gln	Ile	
				170					175					180	
Ala	Asp	Glu	Leu	Leu	Glu	Ile	Asn	Gly	Gln	Ile	Leu	Tyr	Gly	Arg	
				185					190					195	
Ser	His	Gln	Asn	Ala	Ser	Ser	Ile	Ile	Lys	Cys	Ala	Pro	Ser	Lys	
				200					205					210	
Val	Lys	Ile	Ile	Phe	Ile	Arg	Asn	Lys	Asp	Ala	Val	Asn	Gln	Met	
				215					220					225	
Ala	Val	Cys	Pro	Gly	Asn	Ala	Val	Glu	Pro	Leu	Pro	Ser	Asn	Ser	
				230					235					240	
Glu	Asn	Leu	Gln	Asn	Lys	Glu	Thr	Glu	Pro	Thr	Val	Thr	Thr	Ser	
				245					250					255	
Asp	Ala	Ala	Val	Asp	Leu	Ser	Ser	Phe	Lys	Asn	Val	Gln	His	Leu	
				260					265					270	
Glu	Leu	Pro	Lys	Asp	Gln	Gly	Gly	Leu	Gly	Ile	Ala	Ile	Ser	Glu	
				275					280					285	
Glu	Asp	Thr	Leu	Ser	Gly	Val	Ile	Ile	Lys	Ser	Leu	Thr	Glu	His	
				290					295					300	
Gly	Val	Ala	Ala	Thr	Asp	Gly	Arg	Leu	Lys	Val	Gly	Asp	Gln	Ile	
				305					310					315	
Leu	Ala	Val	Asp	Asp	Glu	Ile	Val	Val	Gly	Tyr	Pro	Ile	Glu	Lys	
				320					325					330	
Phe	Ile	Ser	Leu	Leu	Lys	Thr	Ala	Lys	Met	Thr	Val	Lys	Leu	Thr	
				335					340					345	
Ile	His	Ala	Glu	Asn	Pro	Asp	Ser	Gln	Ala	Val	Pro	Ser	Ala	Ala	
				350					355					360	

PF-0637 USN

Gly	Ala	Ala	Ser	Gly	Glu	Lys	Lys	Asn	Ser	Ser	Gln	Ser	Leu	Met
				365					370					375
Val	Pro	Gln	Ser	Gly	Ser	Pro	Glu	Pro	Glu	Ser	Ile	Arg	Asn	Thr
				380					385					390
Ser	Arg	Ser	Ser	Thr	Pro	Ala	Ile	Phe	Ala	Ser	Asp	Pro	Ala	Thr
				395					400					405
Cys	Pro	Ile	Ile	Pro	Gly	Cys	Glu	Thr	Thr	Ile	Glu	Ile	Ser	Lys
				410					415					420
Gly	Arg	Thr	Gly	Leu	Gly	Leu	Ser	Ile	Val	Gly	Gly	Ser	Asp	Thr
				425					430					435
Leu	Leu	Gly	Ala	Ile	Ile	Ile	His	Glu	Val	Tyr	Glu	Glu	Gly	Ala
				440					445					450
Ala	Cys	Lys	Asp	Gly	Arg	Leu	Trp	Ala	Gly	Asp	Gln	Ile	Leu	Glu
				455					460					465
Val	Asn	Gly	Ile	Asp	Leu	Arg	Lys	Ala	Thr	His	Asp	Glu	Ala	Ile
				470					475					480
Asn	Val	Leu	Arg	Gln	Thr	Pro	Gln	Arg	Val	Arg	Leu	Thr	Leu	Tyr
				485					490					495
Arg	Asp	Glu	Ala	Pro	Tyr	Lys	Glu	Glu	Glu	Val	Cys	Asp	Thr	Leu
				500					505					510
Thr	Ile	Glu	Leu	Gln	Lys	Lys	Pro	Gly	Lys	Gly	Leu	Gly	Leu	Ser
				515					520					525
Ile	Val	Gly	Lys	Arg	Asn	Asp	Thr	Gly	Val	Phe	Val	Ser	Asp	Ile
				530					535					540
Val	Lys	Gly	Gly	Ile	Ala	Asp	Ala	Asp	Gly	Arg	Leu	Met	Gln	Gly
				545					550					555
Asp	Gln	Ile	Leu	Met	Val	Asn	Gly	Glu	Asp	Val	Arg	Asn	Ala	Thr
				560					565					570
Gln	Glu	Ala	Val	Ala	Ala	Leu	Leu	Lys	Cys	Ser	Leu	Gly	Thr	Val
				575					580					585
Thr	Leu	Glu	Val	Gly	Arg	Ile	Lys	Ala	Gly	Pro	Phe	His	Ser	Glu
				590					595					600
Arg	Arg	Pro	Ser	Gln	Ser	Ser	Gln	Val	Ser	Glu	Gly	Ser	Leu	Ser
				605					610					615
Ser	Phe	Thr	Phe	Pro	Leu	Ser	Gly	Ser	Ser	Thr	Ser	Glu	Ser	Leu
				620					625					630
Glu	Ser	Ser	Ser	Lys	Lys	Asn	Ala	Leu	Ala	Ser	Glu	Ile	Gln	Gly
				635					640					645
Leu	Arg	Thr	Val	Glu	Met	Lys	Lys	Gly	Pro	Thr	Asp	Ser	Leu	Gly
				650					655					660
Ile	Ser	Ile	Ala	Gly	Gly	Val	Gly	Ser	Pro	Leu	Gly	Asp	Val	Pro
				665					670					675
Ile	Phe	Ile	Ala	Met	Met	His	Pro	Thr	Gly	Val	Ala	Ala	Gln	Thr
				680					685					690
Gln	Lys	Leu	Arg	Val	Gly	Asp	Arg	Ile	Val	Thr	Ile	Cys	Gly	Thr
				695					700					705
Ser	Thr	Glu	Gly	Met	Thr	His	Thr	Gln	Ala	Val	Asn	Leu	Leu	Lys
				710					715					720
Asn	Ala	Ser	Gly	Ser	Ile	Glu	Met	Gln	Val	Val	Ala	Gly	Gly	Asp
				725					730					735
Val	Ser	Val	Val	Thr	Gly	His	Gln	Gln	Glu	Pro	Ala	Ser	Ser	Ser
				740					745					750
Leu	Ser	Phe	Thr	Gly	Leu	Thr	Ser	Ser	Ser	Ile	Phe	Gln	Asp	Asp
				755					760					765

PF-0637 USN

Leu	Gly	Pro	Pro	Gln	Cys	Lys	Ser	Ile	Thr	Leu	Glu	Arg	Gly	Pro	
				770					775					780	
Asp	Gly	Leu	Gly	Phe	Ser	Ile	Val	Gly	Gly	Tyr	Gly	Ser	Pro	His	
				785					790					795	
Gly	Asp	Leu	Pro	Ile	Tyr	Val	Lys	Thr	Val	Phe	Ala	Lys	Gly	Ala	
				800					805					810	
Ala	Ser	Glu	Asp	Gly	Arg	Leu	Lys	Arg	Gly	Asp	Gln	Ile	Ile	Ala	
				815					820					825	
Val	Asn	Gly	Gln	Ser	Leu	Glu	Gly	Val	Thr	His	Glu	Glu	Ala	Val	
				830					835					840	
Ala	Ile	Leu	Lys	Arg	Thr	Lys	Gly	Thr	Val	Thr	Leu	Met	Val	Leu	
				845					850					855	
Ser															

<210> 13

<211> 361

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3800639CD1

<400> 13

Met	Glu	Thr	Gly	Ala	Ala	Glu	Leu	Tyr	Asp	Gln	Ala	Leu	Leu	Gly	
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Ile	Leu	Gln	His	Val	Gly	Asn	Val	Gln	Asp	Phe	Leu	Arg	Val	Leu	
				20					25					30	
Phe	Gly	Phe	Leu	Tyr	Arg	Lys	Thr	Asp	Phe	Tyr	Arg	Leu	Leu	Arg	
				35					40					45	
His	Pro	Ser	Asp	Arg	Met	Gly	Phe	Pro	Pro	Gly	Ala	Ala	Gln	Ala	
				50					55					60	
Leu	Val	Leu	Gln	Val	Phe	Lys	Thr	Phe	Asp	His	Met	Ala	Arg	Gln	
				65					70					75	
Asp	Asp	Glu	Lys	Arg	Arg	Gln	Glu	Leu	Glu	Glu	Lys	Ile	Arg	Arg	
				80					85					90	
Lys	Glu	Glu	Glu	Glu	Ala	Lys	Thr	Val	Ser	Ala	Ala	Ala	Ala	Glu	
				95					100					105	
Lys	Glu	Pro	Val	Pro	Val	Pro	Val	Gln	Glu	Ile	Glu	Ile	Asp	Ser	
				110					115					120	
Thr	Thr	Glu	Leu	Asp	Gly	His	Gln	Glu	Val	Glu	Lys	Val	Gln	Pro	
				125					130					135	
Pro	Gly	Pro	Val	Lys	Glu	Met	Ala	His	Gly	Ser	Gln	Glu	Ala	Glu	
				140					145					150	
Ala	Pro	Gly	Ala	Val	Ala	Gly	Ala	Ala	Glu	Val	Pro	Arg	Glu	Pro	
				155					160					165	
Pro	Ile	Leu	Pro	Arg	Ile	Gln	Glu	Gln	Phe	Gln	Lys	Asn	Pro	Asp	
				170					175					180	
Ser	Tyr	Asn	Gly	Ala	Val	Arg	Glu	Asn	Tyr	Thr	Trp	Ser	Gln	Asp	
				185					190					195	
Tyr	Thr	Asp	Leu	Glu	Val	Arg	Val	Pro	Val	Pro	Lys	His	Val	Val	
				200					205					210	
Lys	Gly	Lys	Gln	Val	Ser	Val	Ala	Leu	Ser	Ser	Ser	Ser	Ile	Arg	

PF-0637 USN

	215		220		225
Val Ala Met Leu	Glu Glu Asn Gly Glu	Arg Val Leu Met Glu	Gly		
	230		235		240
Lys Leu Thr His	Lys Ile Asn Thr Glu	Ser Ser Leu Trp Ser	Leu		
	245		250		255
Glu Pro Gly Lys	Cys Val Leu Val Asn	Leu Ser Lys Val Gly	Glu		
	260		265		270
Tyr Trp Trp Asn	Ala Ile Leu Glu Gly	Glu Glu Pro Ile Asp	Ile		
	275		280		285
Asp Lys Ile Asn	Lys Glu Arg Ser Met	Ala Thr Val Asp Glu	Glu		
	290		295		300
Glu Gln Ala Val	Leu Asp Arg Leu Thr	Phe Asp Tyr His Gln	Lys		
	305		310		315
Leu Gln Gly Lys	Pro Gln Ser His Glu	Leu Lys Val His Glu	Met		
	320		325		330
Leu Lys Lys Gly	Trp Asp Ala Glu Gly	Ser Pro Phe Arg Gly	Gln		
	335		340		345
Arg Phe Asp Pro	Ala Met Phe Asn Ile	Ser Pro Gly Ala Val	Gln		
	350		355		360
Phe					

<210> 14

<211> 632

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 533825CD1

<400> 14

Met Lys Ala Leu Leu Leu Val Leu Pro Trp Leu Ser Pro Ala		
1	5	10
Asn Tyr Ile Asp Asn Val Gly Asn Leu His Phe Leu Tyr Ser Glu		
	20	25
Leu Cys Lys Gly Ala Ser His Tyr Gly Leu Thr Lys Asp Arg Lys		
	35	40
Arg Arg Ser Gln Asp Gly Cys Pro Asp Gly Cys Ala Ser Leu Thr		
	50	55
Ala Thr Ala Pro Ser Pro Glu Val Ser Ala Ala Ala Thr Ile Ser		
	65	70
Leu Met Thr Asp Glu Pro Gly Leu Asp Asn Pro Ala Tyr Val Ser		
	80	85
Ser Ala Glu Asp Gly Gln Pro Ala Ile Ser Pro Val Asp Ser Gly		
	95	100
Arg Ser Asn Arg Thr Arg Ala Arg Pro Phe Glu Arg Ser Thr Ile		
	110	115
Arg Ser Arg Ser Phe Lys Lys Ile Asn Arg Ala Leu Ser Val Leu		
	125	130
Arg Arg Thr Lys Ser Gly Ser Ala Val Ala Asn His Ala Asp Gln		
	140	145
Gly Arg Glu Asn Ser Glu Asn Ile Thr Ala Pro Glu Val Phe Pro		
	155	160
		165

PF-0637 USN

Arg Leu Tyr His	Leu Ile Pro Asp Gly Glu Ile Thr Ser Ile Lys	170	175	180
Ile Asn Arg Val	Asp Pro Ser Glu Ser Leu Ser Ile Arg Leu Val	185	190	195
Gly Gly Ser Glu	Thr Pro Leu Val His Ile Ile Ile Gln His Ile	200	205	210
Tyr Arg Asp Gly	Val Ile Ala Arg Asp Gly Arg Leu Leu Pro Gly	215	220	225
Asp Ile Ile Leu	Lys Val Asn Gly Met Asp Ile Ser Asn Val Pro	230	235	240
His Asn Tyr Ala	Val Arg Leu Leu Arg Gln Pro Cys Gln Val Leu	245	250	255
Trp Leu Thr Val	Met Arg Glu Gln Lys Phe Arg Ser Arg Asn Asn	260	265	270
Gly Gln Ala Pro	Asp Ala Tyr Arg Pro Arg Asp Asp Ser Phe His	275	280	285
Val Ile Leu Asn	Lys Ser Ser Pro Glu Glu Gln Leu Gly Ile Lys	290	295	300
Leu Val Arg Lys	Val Asp Glu Pro Gly Val Phe Ile Phe Asn Val	305	310	315
Leu Asp Gly Gly	Val Ala Tyr Arg His Gly Gln Leu Glu Glu Asn	320	325	330
Asp Arg Val Leu	Ala Ile Asn Gly His Asp Leu Arg Tyr Gly Ser	335	340	345
Pro Glu Ser Ala	Ala His Leu Ile Gln Ala Ser Glu Arg Arg Val	350	355	360
His Leu Val Val	Ser Arg Gln Val Arg Gln Arg Ser Pro Asp Ile	365	370	375
Phe Gln Glu Ala	Gly Trp Asn Ser Asn Gly Ser Trp Ser Pro Gly	380	385	390
Pro Gly Glu Arg	Ser Asn Thr Pro Lys Pro Leu His Pro Thr Ile	395	400	405
Thr Cys His Glu	Lys Val Val Asn Ile Gln Lys Asp Pro Gly Glu	410	415	420
Ser Leu Gly Met	Ala Val Ala Gly Gly Ala Ser His Arg Glu Trp	425	430	435
Asp Leu Pro Ile	Tyr Val Ile Ser Val Glu Pro Gly Gly Val Ile	440	445	450
Ser Arg Asp Gly	Arg Ile Lys Thr Gly Asp Ile Leu Leu Asn Val	455	460	465
Asp Gly Val Glu	Leu Thr Glu Val Ser Arg Ser Glu Ala Val Ala	470	475	480
Leu Leu Lys Arg	Thr Ser Ser Ser Ile Val Leu Lys Ala Leu Glu	485	490	495
Val Lys Glu Tyr	Glu Pro Gln Glu Asp Cys Ser Ser Pro Ala Ala	500	505	510
Leu Asp Ser Asn	His Asn Met Ala Pro Pro Ser Asp Trp Ser Pro	515	520	525
Ser Trp Val Met	Trp Leu Glu Leu Pro Arg Cys Leu Tyr Asn Cys	530	535	540
Lys Asp Ile Val	Leu Arg Arg Asn Thr Ala Gly Ser Leu Gly Phe	545	550	555
Cys Ile Val Gly	Gly Tyr Glu Glu Tyr Asn Gly Asn Lys Pro Phe	560	565	570

PF-0637 USN

Phe	Ile	Lys	Ser	Ile	Val	Glu	Gly	Thr	Pro	Ala	Tyr	Asn	Asp	Gly
				575					580					585
Arg	Ile	Arg	Cys	Gly	Asp	Ile	Leu	Leu	Ala	Val	Asn	Gly	Arg	Ser
				590					595					600
Thr	Ser	Gly	Met	Ile	His	Ala	Cys	Leu	Ala	Arg	Leu	Leu	Lys	Glu
				605					610					615
Leu	Lys	Gly	Arg	Ile	Thr	Leu	Thr	Ile	Val	Ser	Trp	Pro	Gly	Thr
				620					625					630
Phe	Leu													

<210> 15

<211> 391

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1311833CD1

<400> 15

Met	Lys	Met	Lys	Ile	Gln	Lys	Lys	Glu	Lys	Gln	Leu	Ser	Asn	Leu
1				5					10					15
Lys	Val	Leu	Asn	His	Ser	Pro	Met	Ser	Asp	Ala	Ser	Val	Asn	Phe
				20					25					30
Asp	Tyr	Lys	Ser	Pro	Ser	Pro	Phe	Asp	Cys	Ser	Thr	Asp	Gln	Glu
				35					40					45
Glu	Lys	Ile	Glu	Asp	Val	Ala	Ser	His	Cys	Leu	Pro	Gln	Lys	Asp
				50					55					60
Leu	Tyr	Thr	Ala	Glu	Glu	Glu	Ala	Ala	Thr	Leu	Phe	Pro	Arg	Lys
				65					70					75
Met	Thr	Ser	His	Asn	Gly	Met	Glu	Asp	Ser	Gly	Gly	Gly	Gly	Thr
				80					85					90
Gly	Val	Lys	Lys	Lys	Arg	Lys	Lys	Lys	Glu	Pro	Gly	Asp	Gln	Glu
				95					100					105
Gly	Ala	Ala	Lys	Gly	Ser	Lys	Asp	Arg	Glu	Pro	Lys	Pro	Lys	Arg
				110					115					120
Lys	Arg	Glu	Pro	Lys	Glu	Pro	Lys	Glu	Pro	Arg	Lys	Ala	Lys	Glu
				125					130					135
Pro	Lys	Lys	Ala	Lys	Glu	His	Lys	Glu	Pro	Lys	Gln	Lys	Asp	Gly
				140					145					150
Ala	Lys	Lys	Ala	Arg	Lys	Pro	Arg	Glu	Ala	Ser	Gly	Thr	Lys	Glu
				155					160					165
Ala	Lys	Glu	Lys	Arg	Ser	Cys	Thr	Asp	Ser	Ala	Ala	Arg	Thr	Lys
				170					175					180
Ser	Arg	Lys	Ala	Ser	Lys	Glu	Gln	Gly	Pro	Thr	Pro	Val	Glu	Lys
				185					190					195
Lys	Lys	Lys	Gly	Lys	Arg	Lys	Ser	Glu	Thr	Thr	Val	Glu	Ser	Leu
				200					205					210
Glu	Leu	Asp	Gln	Gly	Leu	Thr	Asn	Pro	Ser	Leu	Arg	Ser	Pro	Glu
				215					220					225
Glu	Ser	Thr	Glu	Ser	Thr	Asp	Ser	Gln	Lys	Arg	Arg	Ser	Gly	Arg
				230					235					240
Gln	Val	Lys	Arg	Arg	Lys	Tyr	Asn	Glu	Asp	Leu	Asp	Phe	Lys	Val

PF-0637 USN

	245		250		255
Val Asp Asp Asp	Gly Glu Thr Ile Ala	Val Leu Gly Ala Gly	Arg		
	260		270		
Thr Ser Ala Leu	Ser Ala Ser Thr Leu	Ala Trp Gln Ala Glu	Glu		
	275		285		
Pro Pro Glu Asp	Asp Ala Asn Ile Ile	Glu Lys Ile Leu Ala	Ser		
	290		300		
Lys Thr Val Gln	Glu Val His Pro Gly	Glu Pro Pro Phe Asp	Leu		
	305		315		
Glu Leu Phe Tyr	Val Lys Tyr Arg Asn	Phe Ser Tyr Leu His	Cys		
	320		330		
Lys Trp Ala Thr	Met Glu Glu Leu Glu	Lys Asp Pro Arg Ile	Ala		
	335		345		
Gln Lys Ile Lys	Arg Phe Arg Asn Lys	Gln Ala Gln Met Lys	His		
	350		360		
Ile Phe Thr Glu	Val Lys Gln Tyr Leu	Leu Thr His Leu Thr	Ala		
	365		375		
Ala Phe Leu Ala	Ala Val Asn Thr Val	Phe Thr Phe Leu Ser	Pro		
	380		390		
Ser					

<210> 16

<211> 490

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1342819CD1

<400> 16

Met Glu Asp Ser	Ala Ser Ala Ser	Leu Ser Ser	Ala Ala Ala	Thr
1	5	10		15
Gly Thr Ser Thr	Ser Thr Pro Ala	Ala Pro Thr	Ala Arg Lys	Gln
	20	25		30
Leu Asp Lys Glu	Gln Val Arg Lys	Ala Val Asp	Ala Leu Leu	Thr
	35	40		45
His Cys Lys Ser	Arg Lys Asn Asn	Tyr Gly Leu	Leu Leu Asn	Glu
	50	55		60
Asn Glu Ser Leu	Phe Leu Met Val	Val Leu Trp	Lys Ile Pro	Ser
	65	70		75
Lys Glu Leu Arg	Val Arg Leu Thr	Leu Pro His	Ser Ile Arg	Ser
	80	85		90
Asp Ser Glu Asp	Ile Cys Leu Phe	Thr Lys Asp	Glu Pro Asn	Ser
	95	100		105
Thr Pro Glu Lys	Thr Glu Gln Phe	Tyr Arg Lys	Leu Leu Asn	Lys
	110	115		120
His Gly Ile Lys	Thr Val Ser Gln	Ile Ile Ser	Leu Gln Thr	Leu
	125	130		135
Lys Lys Glu Tyr	Lys Ser Tyr Glu	Ala Lys Leu	Arg Leu Leu	Ser
	140	145		150
Ser Phe Asp Phe	Phe Leu Thr Asp	Ala Arg Ile	Arg Arg Leu	Leu
	155	160		165

PF-0637 USN

Pro	Ser	Leu	Ile	Gly	Arg	His	Phe	Tyr	Gln	Arg	Lys	Lys	Val	Pro	
				170					175					180	
Val	Ser	Val	Asn	Leu	Leu	Ser	Lys	Asn	Leu	Ser	Arg	Glu	Ile	Asn	
				185					190					195	
Asp	Cys	Ile	Gly	Gly	Thr	Val	Leu	Asn	Ile	Ser	Lys	Ser	Gly	Ser	
				200					205					210	
Cys	Ser	Ala	Ile	Arg	Ile	Gly	His	Val	Gly	Met	Gln	Ile	Glu	His	
				215					220					225	
Ile	Ile	Glu	Asn	Ile	Val	Ala	Val	Thr	Lys	Gly	Leu	Ser	Glu	Lys	
				230					235					240	
Leu	Pro	Glu	Lys	Trp	Glu	Ser	Val	Lys	Leu	Leu	Phe	Val	Lys	Thr	
				245					250					255	
Glu	Lys	Ser	Ala	Ala	Leu	Pro	Ile	Phe	Ser	Ser	Phe	Val	Ser	Asn	
				260					265					270	
Trp	Asp	Glu	Ala	Thr	Lys	Arg	Ser	Leu	Leu	Asn	Lys	Lys	Lys	Lys	
				275					280					285	
Glu	Ala	Arg	Arg	Lys	Arg	Arg	Glu	Arg	Asn	Phe	Glu	Lys	Gln	Lys	
				290					295					300	
Glu	Arg	Lys	Lys	Lys	Arg	Gln	Gln	Ala	Arg	Lys	Thr	Ala	Ser	Val	
				305					310					315	
Leu	Ser	Lys	Asp	Asp	Val	Ala	Pro	Glu	Ser	Gly	Asp	Thr	Thr	Val	
				320					325					330	
Lys	Lys	Pro	Glu	Ser	Lys	Lys	Glu	Gln	Thr	Pro	Glu	His	Gly	Lys	
				335					340					345	
Lys	Lys	Arg	Gly	Arg	Gly	Lys	Ala	Gln	Val	Lys	Ala	Thr	Asn	Glu	
				350					355					360	
Ser	Glu	Asp	Glu	Ile	Pro	Gln	Leu	Val	Pro	Ile	Gly	Lys	Lys	Thr	
				365					370					375	
Pro	Ala	Asn	Glu	Lys	Val	Glu	Ile	Gln	Lys	His	Ala	Thr	Gly	Lys	
				380					385					390	
Lys	Ser	Pro	Ala	Lys	Ser	Pro	Asn	Pro	Ser	Thr	Pro	Arg	Gly	Lys	
				395					400					405	
Lys	Arg	Lys	Ala	Leu	Pro	Ala	Ser	Glu	Thr	Pro	Lys	Ala	Ala	Glu	
				410					415					420	
Ser	Glu	Thr	Pro	Gly	Lys	Ser	Pro	Glu	Lys	Lys	Pro	Lys	Ile	Lys	
				425					430					435	
Glu	Glu	Ala	Val	Lys	Glu	Lys	Ser	Pro	Ser	Leu	Gly	Lys	Lys	Asp	
				440					445					450	
Ala	Arg	Gln	Thr	Pro	Lys	Lys	Pro	Glu	Ala	Lys	Phe	Phe	Thr	Thr	
				455					460					465	
Pro	Ser	Lys	Ser	Val	Arg	Lys	Ala	Ser	His	Thr	Pro	Lys	Lys	Trp	
				470					475					480	
Pro	Lys	Lys	Pro	Lys	Val	Pro	Gln	Ser	Thr						
				485					490						

<210> 17

<211> 252

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1871288CD1

PF-0637 USN

<400> 17

Met	Ala	Glu	Leu	Glu	Phe	Val	Gln	Ile	Ile	Ile	Ile	Val	Val	Val	
1				5					10					15	
Met	Met	Val	Met	Val	Val	Val	Ile	Thr	Cys	Leu	Leu	Ser	His	Tyr	
				20					25					30	
Lys	Leu	Ser	Ala	Arg	Ser	Phe	Ile	Ser	Arg	His	Ser	Gln	Gly	Arg	
				35					40					45	
Arg	Arg	Glu	Asp	Ala	Leu	Ser	Ser	Glu	Gly	Cys	Leu	Trp	Pro	Ser	
				50					55					60	
Glu	Ser	Thr	Val	Ser	Gly	Asn	Gly	Ile	Pro	Glu	Pro	Gln	Val	Tyr	
				65					70					75	
Ala	Pro	Pro	Arg	Pro	Thr	Asp	Arg	Leu	Ala	Val	Pro	Pro	Phe	Ala	
				80					85					90	
Gln	Arg	Glu	Arg	Phe	His	Arg	Phe	Gln	Pro	Thr	Tyr	Pro	Tyr	Leu	
				95					100					105	
Gln	His	Glu	Ile	Asp	Leu	Pro	Pro	Thr	Ile	Ser	Leu	Ser	Asp	Gly	
				110					115					120	
Glu	Glu	Pro	Pro	Pro	Tyr	Gln	Gly	Pro	Cys	Thr	Leu	Gln	Leu	Arg	
				125					130					135	
Asp	Pro	Glu	Gln	Gln	Leu	Glu	Leu	Asn	Arg	Glu	Ser	Val	Arg	Ala	
				140					145					150	
Pro	Pro	Asn	Arg	Thr	Ile	Phe	Asp	Ser	Asp	Leu	Met	Asp	Ser	Ala	
				155					160					165	
Arg	Leu	Gly	Gly	Pro	Cys	Pro	Pro	Ser	Ser	Asn	Ser	Gly	Ile	Ser	
				170					175					180	
Ala	Thr	Cys	Tyr	Gly	Ser	Gly	Gly	Arg	Met	Glu	Gly	Pro	Pro	Pro	
				185					190					195	
Thr	Tyr	Ser	Glu	Val	Ile	Gly	His	Tyr	Pro	Gly	Ser	Ser	Phe	Gln	
				200					205					210	
His	Gln	Gln	Ser	Ser	Gly	Pro	Pro	Ser	Leu	Leu	Glu	Gly	Thr	Arg	
				215					220					225	
Leu	His	His	Thr	His	Ile	Ala	Pro	Leu	Glu	Ser	Ala	Ala	Ile	Trp	
				230					235					240	
Ser	Lys	Glu	Lys	Asp	Lys	Gln	Lys	Gly	His	Pro	Leu				
				245					250						

<210> 18

<211> 142

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2587338CD1

<400> 18

Met	Glu	Ser	Ala	Arg	Glu	Asn	Ile	Asp	Leu	Gln	Pro	Gly	Ser	Ser	
1				5					10					15	
Asp	Pro	Arg	Ser	Gln	Pro	Ile	Asn	Leu	Asn	His	Tyr	Ala	Thr	Lys	
				20					25					30	
Lys	Ser	Val	Ala	Glu	Ser	Met	Leu	Asp	Val	Ala	Leu	Phe	Met	Ser	
				35					40					45	
Asn	Ala	Met	Arg	Leu	Lys	Ala	Val	Leu	Glu	Gln	Gly	Pro	Ser	Ser	
				50					55					60	

PF-0637 USN

His	Tyr	Tyr	Thr	Thr	Leu	Val	Thr	Leu	Ile	Ser	Leu	Ser	Leu	Leu
				65					70					75
Leu	Gln	Val	Val	Ile	Gly	Val	Leu	Leu	Val	Val	Ile	Ala	Arg	Leu
				80					85					90
Asn	Leu	Asn	Glu	Val	Glu	Lys	Gln	Trp	Arg	Leu	Asn	Gln	Leu	Asn
				95					100					105
Asn	Gly	Ser	His	Ile	Leu	Val	Phe	Phe	Thr	Val	Val	Ile	Asn	Gly
				110					115					120
Phe	Ile	Thr	Gly	Phe	Gly	Ala	His	Lys	Thr	Arg	Val	Leu	Ala	Cys
				125					130					135
Gln	Asp	Ser	Arg	Asn	Pro	Leu								
				140										

<210> 19

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2821211CD1

<400> 19

Met	Glu	Ile	Ile	Glu	Asn	Ser	Phe	His	Ile	Asn	Gly	Leu	Lys	Ile
1				5					10					15
Asn	Gln	Arg	Thr	Leu	Cys	Val	His	Val	Cys	Ile	Ser	Ala	His	Arg
				20					25					30
Asn	Ile	Tyr	Thr	Tyr	Val	Asp	Tyr	Ile	His	Val	Cys	Ile	Tyr	Val
				35					40					45
Tyr	Ile	Tyr	Ile	His	Leu	Tyr	Lys	Cys	Ile	Tyr	Thr	Tyr	Thr	Tyr
				50					55					60
Asn	Val	Cys	Met	Cys	Ile	Tyr								
				65										

<210> 20

<211> 455

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2824832CD1

<400> 20

Met	Phe	Gln	Phe	His	Ala	Gly	Ser	Trp	Glu	Ser	Trp	Cys	Cys	Cys
1				5					10					15
Cys	Leu	Ile	Pro	Ala	Asp	Arg	Pro	Trp	Asp	Arg	Gly	Gln	His	Trp
				20					25					30
Gln	Leu	Glu	Met	Ala	Asp	Thr	Arg	Ser	Val	His	Glu	Thr	Arg	Phe
				35					40					45
Glu	Ala	Ala	Val	Lys	Val	Ile	Gln	Ser	Leu	Pro	Lys	Asn	Gly	Ser
				50					55					60
Phe	Gln	Pro	Thr	Asn	Glu	Met	Met	Leu	Lys	Phe	Tyr	Ser	Phe	Tyr
				65					70					75

PF-0637 USN

Lys	Gln	Ala	Thr	Glu	Gly	Pro	Cys	Lys	Leu	Ser	Arg	Pro	Gly	Phe	
				80					85					90	
Trp	Asp	Pro	Ile	Gly	Arg	Tyr	Lys	Trp	Asp	Ala	Trp	Ser	Ser	Leu	
				95					100					105	
Gly	Asp	Met	Thr	Lys	Glu	Glu	Ala	Met	Ile	Ala	Tyr	Val	Glu	Glu	
				110					115					120	
Met	Lys	Lys	Ile	Ile	Glu	Thr	Met	Pro	Met	Thr	Glu	Lys	Val	Glu	
				125					130					135	
Glu	Leu	Leu	Arg	Val	Ile	Gly	Pro	Phe	Tyr	Glu	Ile	Val	Glu	Asp	
				140					145					150	
Lys	Lys	Ser	Gly	Arg	Ser	Ser	Asp	Ile	Thr	Ser	Asp	Leu	Gly	Asn	
				155					160					165	
Val	Leu	Thr	Ser	Thr	Pro	Asn	Ala	Lys	Thr	Val	Asn	Gly	Lys	Ala	
				170					175					180	
Glu	Ser	Ser	Asp	Ser	Gly	Ala	Glu	Ser	Glu	Glu	Glu	Glu	Ala	Gln	
				185					190					195	
Glu	Glu	Val	Lys	Gly	Ala	Glu	Gln	Ser	Asp	Asn	Asp	Ile	Asn	Asp	
				200					205					210	
Asp	His	Val	Glu	Asp	Val	Thr	Gly	Ile	Gln	His	Leu	Thr	Ser	Asp	
				215					220					225	
Ser	Asp	Ser	Glu	Val	Tyr	Cys	Asp	Ser	Met	Glu	Gln	Phe	Gly	Gln	
				230					235					240	
Glu	Glu	Ser	Leu	Asp	Ser	Phe	Thr	Ser	Asn	Asn	Gly	Pro	Phe	Gln	
				245					250					255	
Tyr	Tyr	Leu	Gly	Gly	His	Ser	Ser	Gln	Pro	Met	Glu	Asn	Ser	Gly	
				260					265					270	
Phe	Arg	Glu	Asp	Ile	Gln	Val	Pro	Pro	Gly	Asn	Gly	Asn	Ile	Gly	
				275					280					285	
Asn	Met	Gln	Val	Val	Ala	Val	Glu	Gly	Lys	Gly	Glu	Val	Lys	His	
				290					295					300	
Gly	Gly	Glu	Asp	Gly	Arg	Asn	Asn	Ser	Gly	Ala	Pro	His	Arg	Glu	
				305					310					315	
Lys	Arg	Gly	Gly	Glu	Thr	Asp	Glu	Phe	Ser	Asn	Val	Arg	Arg	Gly	
				320					325					330	
Arg	Gly	His	Arg	Met	Gln	His	Leu	Ser	Glu	Gly	Thr	Lys	Gly	Arg	
				335					340					345	
Gln	Val	Gly	Ser	Gly	Gly	Asp	Gly	Glu	Arg	Trp	Gly	Ser	Asp	Arg	
				350					355					360	
Gly	Ser	Arg	Gly	Ser	Leu	Asn	Glu	Gln	Ile	Ala	Leu	Val	Leu	Met	
				365					370					375	
Arg	Leu	Gln	Glu	Asp	Met	Gln	Asn	Val	Leu	Gln	Arg	Leu	Gln	Lys	
				380					385					390	
Leu	Glu	Thr	Leu	Thr	Ala	Leu	Gln	Ala	Lys	Ser	Ser	Thr	Ser	Thr	
				395					400					405	
Leu	Gln	Thr	Ala	Pro	Gln	Pro	Thr	Ser	Gln	Arg	Pro	Ser	Trp	Trp	
				410					415					420	
Pro	Phe	Glu	Met	Ser	Pro	Gly	Val	Leu	Thr	Phe	Ala	Ile	Ile	Trp	
				425					430					435	
Pro	Phe	Ile	Ala	Gln	Trp	Leu	Val	Tyr	Leu	Tyr	Tyr	Gln	Arg	Arg	
				440					445					450	
Arg	Arg	Lys	Leu	Asn											
				455											

<210> 21

PF-0637 USN

<211> 252

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3070147CD1

<400> 21

Met	Gln	Leu	Thr	Arg	Cys	Cys	Phe	Val	Phe	Leu	Val	Gln	Gly	Ser
1				5					10					15
Leu	Tyr	Leu	Val	Ile	Cys	Gly	Gln	Asp	Asp	Gly	Pro	Pro	Gly	Ser
				20					25					30
Glu	Asp	Pro	Glu	Arg	Asp	Asp	His	Glu	Gly	Gln	Pro	Arg	Pro	Arg
				35					40					45
Val	Pro	Arg	Lys	Arg	Gly	His	Ile	Ser	Pro	Lys	Ser	Arg	Pro	Met
				50					55					60
Ala	Asn	Ser	Thr	Leu	Leu	Gly	Leu	Leu	Ala	Pro	Thr	Gly	Glu	Ala
				65					70					75
Trp	Gly	Ile	Leu	Gly	Gln	Pro	Pro	Asn	Arg	Pro	Asn	His	Ser	Pro
				80					85					90
Pro	Pro	Ser	Ala	Lys	Val	Lys	Lys	Ile	Phe	Gly	Trp	Gly	Asp	Phe
				95					100					105
Tyr	Ser	Asn	Ile	Lys	Thr	Val	Ala	Leu	Asn	Leu	Leu	Val	Thr	Gly
				110					115					120
Lys	Ile	Val	Asp	His	Gly	Asn	Gly	Thr	Phe	Ser	Val	His	Phe	Gln
				125					130					135
His	Asn	Ala	Thr	Gly	Gln	Gly	Asn	Ile	Ser	Ile	Ser	Leu	Val	Pro
				140					145					150
Pro	Ser	Lys	Ala	Val	Glu	Phe	His	Gln	Glu	Gln	Gln	Ile	Phe	Ile
				155					160					165
Glu	Ala	Lys	Ala	Ser	Lys	Ile	Phe	Asn	Cys	Arg	Met	Glu	Trp	Glu
				170					175					180
Lys	Val	Glu	Arg	Gly	Arg	Arg	Thr	Ser	Leu	Cys	Thr	His	Asp	Pro
				185					190					195
Ala	Lys	Ile	Cys	Ser	Arg	Asp	His	Ala	Gln	Ser	Ser	Ala	Thr	Trp
				200					205					210
Ser	Cys	Ser	Gln	Pro	Phe	Lys	Val	Val	Cys	Val	Tyr	Ile	Ala	Phe
				215					220					225
Tyr	Ser	Thr	Asp	Tyr	Arg	Leu	Val	Gln	Lys	Val	Cys	Pro	Asp	Tyr
				230					235					240
Asn	Tyr	His	Ser	Asp	Thr	Pro	Tyr	Tyr	Pro	Ser	Gly			
				245					250					

<210> 22

<211> 149

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3271841CD1

<400> 22

PF-0637 USN

Met	Glu	Ser	Arg	Gly	Lys	Ser	Ala	Ser	Ser	Pro	Lys	Pro	Asp	Thr
1				5					10					15
Lys	Val	Pro	Gln	Val	Thr	Thr	Glu	Ala	Lys	Val	Pro	Pro	Ala	Ala
				20					25					30
Asp	Gly	Lys	Ala	Pro	Leu	Thr	Lys	Pro	Ser	Lys	Lys	Glu	Ala	Pro
				35					40					45
Ala	Glu	Lys	Gln	Gln	Pro	Pro	Ala	Ala	Pro	Thr	Thr	Ala	Pro	Ala
				50					55					60
Lys	Lys	Thr	Ser	Ala	Lys	Ala	Asp	Pro	Ala	Leu	Leu	Asn	Asn	His
				65					70					75
Ser	Asn	Leu	Lys	Pro	Ala	Pro	Thr	Val	Pro	Ser	Ser	Pro	Asp	Ala
				80					85					90
Thr	Pro	Glu	Pro	Lys	Gly	Pro	Gly	Asp	Gly	Ala	Glu	Glu	Asp	Glu
				95					100					105
Ala	Ala	Ser	Gly	Gly	Pro	Gly	Gly	Arg	Gly	Pro	Trp	Ser	Cys	Glu
				110					115					120
Asn	Phe	Asn	Pro	Leu	Leu	Val	Ala	Gly	Gly	Val	Ala	Val	Ala	Ala
				125					130					135
Ile	Ala	Leu	Ile	Leu	Gly	Val	Ala	Phe	Leu	Val	Arg	Lys	Lys	
				140					145					

<210> 23

<211> 204

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3537827CD1

<400> 23

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Ser	Val	Glu	Asp	Gly	Lys	Trp	Tyr	Gly	Val	Arg	Ser	Tyr	Leu	His
				20					25					30
Leu	Phe	Tyr	Glu	Asp	Cys	Ala	Gly	Thr	Ala	Leu	Ser	Asp	Asp	Pro
				35					40					45
Glu	Gly	Pro	Pro	Val	Leu	Cys	Pro	Arg	Arg	Pro	Trp	Pro	Ser	Leu
				50					55					60
Cys	Trp	Lys	Ile	Ser	Leu	Ser	Ser	Gly	Thr	Leu	Leu	Leu	Leu	Leu
				65					70					75
Gly	Val	Ala	Ala	Leu	Thr	Thr	Gly	Tyr	Ala	Val	Pro	Pro	Lys	Leu
				80					85					90
Glu	Gly	Ile	Gly	Glu	Gly	Glu	Phe	Leu	Val	Leu	Asp	Gln	Arg	Ala
				95					100					105
Ala	Asp	Tyr	Asn	Gln	Ala	Leu	Gly	Thr	Cys	Arg	Leu	Ala	Gly	Thr
				110					115					120
Ala	Leu	Cys	Val	Ala	Ala	Gly	Val	Leu	Leu	Ala	Ile	Cys	Leu	Phe
				125					130					135
Trp	Ala	Met	Ile	Gly	Trp	Leu	Ser	Gln	Asp	Thr	Lys	Ala	Glu	Pro
				140					145					150
Leu	Asp	Pro	Glu	Ala	Asp	Ser	His	Val	Glu	Val	Phe	Gly	Asp	Glu
				155					160					165
Pro	Glu	Gln	Gln	Leu	Ser	Pro	Ile	Phe	Arg	Asn	Ala	Ser	Gly	Gln

PF-0637 USN

	170		175		180
Ser Trp Phe Ser	Pro Pro Ala Ser Pro	Phe Gly Gln Ser Ser	Val		
	185	190	195		
Gln Thr Ile Gln	Pro Lys Arg Asp Ser				
	200				

<210> 24

<211> 367

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3729267CD1

<400> 24

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20 25 30	
Pro Leu Glu Leu Leu Lys Asp Glu Gly Leu Gln Tyr Leu Glu Arg	
35 40 45	
Leu Tyr Met Lys Arg Asn Ser Leu Thr Ser Leu Pro Glu Asn Leu	
50 55 60	
Ala Gln Lys Leu Pro Asn Leu Val Glu Leu Tyr Leu His Ser Asn	
65 70 75	
Asn Ile Val Val Val Pro Glu Ala Ile Gly Ser Leu Val Lys Leu	
80 85 90	
Gln Cys Leu Asp Leu Ser Asp Asn Ala Leu Glu Ile Val Cys Pro	
95 100 105	
Glu Ile Gly Arg Leu Arg Ala Leu Arg His Leu Arg Leu Ala Asn	
110 115 120	
Asn Gln Leu Gln Phe Leu Pro Pro Glu Val Gly Asp Leu Lys Glu	
125 130 135	
Leu Gln Thr Leu Asp Ile Ser Thr Asn Arg Leu Leu Thr Leu Pro	
140 145 150	
Glu Arg Leu His Met Cys Leu Ser Leu Gln Tyr Leu Thr Val Asp	
155 160 165	
Arg Asn Arg Leu Trp Tyr Val Pro Arg His Leu Cys Gln Leu Pro	
170 175 180	
Ser Leu Asn Glu Leu Ser Met Ala Gly Asn Arg Leu Ala Phe Leu	
185 190 195	
Pro Leu Asp Leu Gly Arg Ser Arg Glu Leu Gln Tyr Val Tyr Val	
200 205 210	
Asp Asn Asn Ile His Leu Lys Gly Leu Pro Ser Tyr Leu Tyr Asn	
215 220 225	
Lys Val Ile Gly Cys Ser Gly Cys Gly Ala Pro Ile Gln Val Ser	
230 235 240	
Glu Val Lys Leu Leu Ser Phe Ser Ser Gly Gln Arg Thr Val Phe	
245 250 255	
Leu Pro Ala Glu Val Lys Ala Ile Gly Thr Glu His Asp His Val	
260 265 270	
Leu Pro Leu Gln Glu Leu Ala Met Arg Gly Leu Tyr His Thr Tyr	
275 280 285	

PF-0637 USN

His	Ser	Leu	Leu	Lys	Asp	Leu	Asn	Phe	Leu	Ser	Pro	Ile	Ser	Leu	
				290					295					300	
Pro	Arg	Ser	Leu	Leu	Glu	Leu	Leu	His	Cys	Pro	Leu	Gly	His	Cys	
				305					310					315	
His	Arg	Cys	Ser	Glu	Pro	Met	Phe	Thr	Ile	Val	Tyr	Pro	Lys	Leu	
				320					325					330	
Phe	Pro	Leu	Arg	Glu	Thr	Pro	Met	Ala	Gly	Leu	His	Gln	Trp	Lys	
				335					340					345	
Thr	Thr	Val	Ser	Phe	Val	Ala	Tyr	Cys	Cys	Ser	Thr	Gln	Cys	Leu	
				350					355					360	
Gln	Thr	Phe	Asp	Leu	Leu	Ser									
				365											

<210> 25

<211> 681

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3768771CD1

<400> 25

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Glu	Lys	Gly	Asn	Val	Leu	Leu	Glu	Asp	Gly	Lys	Gly	Arg	Cys	Pro	
				20					25					30	
Phe	Asp	Pro	Asn	Phe	Lys	Ser	Thr	Ala	Leu	Val	Val	Asp	Gly	Glu	
				35					40					45	
Leu	Tyr	Thr	Gly	Thr	Val	Ser	Ser	Phe	Gln	Gly	Asn	Asp	Pro	Ala	
				50					55					60	
Ile	Ser	Arg	Ser	Gln	Ser	Leu	Arg	Pro	Thr	Lys	Thr	Glu	Ser	Ser	
				65					70					75	
Leu	Asn	Trp	Leu	Gln	Asp	Pro	Ala	Phe	Val	Ala	Ser	Ala	Tyr	Ile	
				80					85					90	
Pro	Glu	Ser	Leu	Gly	Ser	Leu	Gln	Gly	Asp	Asp	Asp	Lys	Ile	Tyr	
				95					100					105	
Phe	Phe	Phe	Ser	Glu	Thr	Gly	Gln	Glu	Phe	Glu	Phe	Phe	Glu	Asn	
				110					115					120	
Thr	Ile	Val	Ser	Arg	Ile	Ala	Arg	Ile	Cys	Lys	Gly	Asp	Glu	Gly	
				125					130					135	
Gly	Glu	Arg	Val	Leu	Gln	Gln	Arg	Trp	Thr	Ser	Phe	Leu	Lys	Ala	
				140					145					150	
Gln	Leu	Leu	Cys	Ser	Arg	Pro	Asp	Asp	Gly	Phe	Pro	Phe	Asn	Val	
				155					160					165	
Leu	Gln	Asp	Val	Phe	Thr	Leu	Ser	Pro	Ser	Pro	Gln	Asp	Trp	Arg	
				170					175					180	
Asp	Thr	Leu	Phe	Tyr	Gly	Val	Phe	Thr	Ser	Gln	Trp	His	Arg	Gly	
				185					190					195	
Thr	Thr	Glu	Gly	Ser	Ala	Val	Cys	Val	Phe	Thr	Met	Lys	Asp	Val	
				200					205					210	
Gln	Arg	Val	Phe	Ser	Gly	Leu	Tyr	Lys	Glu	Val	Asn	Arg	Glu	Thr	
				215					220					225	
Gln	Gln	Trp	Tyr	Thr	Val	Thr	His	Pro	Val	Pro	Thr	Pro	Arg	Pro	

	230		235		240
Gly Ala Cys Ile Thr Asn Ser Ala Arg Glu Arg Lys Ile Asn Ser					
	245		250		255
Ser Leu Gln Leu Pro Asp Arg Val Leu Asn Phe Leu Lys Asp His					
	260		265		270
Phe Leu Met Asp Gly Gln Val Arg Ser Arg Met Leu Leu Leu Gln					
	275		280		285
Pro Gln Ala Arg Tyr Gln Arg Val Ala Val His Arg Val Pro Gly					
	290		295		300
Leu His His Thr Tyr Asp Val Leu Phe Leu Gly Thr Gly Asp Gly					
	305		310		315
Arg Leu His Lys Ala Val Ser Val Gly Pro Arg Val His Ile Ile					
	320		325		330
Glu Glu Leu Gln Ile Phe Ser Ser Gly Gln Pro Val Gln Asn Leu					
	335		340		345
Leu Leu Asp Thr His Arg Gly Leu Leu Tyr Ala Ala Ser His Ser					
	350		355		360
Gly Val Val Gln Val Pro Met Ala Asn Cys Ser Leu Tyr Arg Ser					
	365		370		375
Cys Gly Asp Cys Leu Leu Ala Arg Asp Pro Tyr Cys Ala Trp Ser					
	380		385		390
Gly Ser Ser Cys Lys His Val Ser Leu Tyr Gln Pro Gln Leu Ala					
	395		400		405
Thr Arg Pro Trp Ile Gln Asp Ile Glu Gly Ala Ser Ala Lys Asp					
	410		415		420
Leu Cys Ser Ala Ser Ser Val Val Ser Pro Ser Phe Val Pro Thr					
	425		430		435
Gly Glu Lys Pro Cys Glu Gln Val Gln Phe Gln Pro Asn Thr Val					
	440		445		450
Asn Thr Leu Ala Cys Pro Leu Leu Ser Asn Leu Ala Thr Arg Leu					
	455		460		465
Trp Leu Arg Asn Gly Ala Pro Val Asn Ala Ser Ala Ser Cys His					
	470		475		480
Val Leu Pro Thr Gly Asp Leu Leu Leu Val Gly Thr Gln Gln Leu					
	485		490		495
Gly Glu Phe Gln Cys Trp Ser Leu Glu Glu Gly Phe Gln Gln Leu					
	500		505		510
Val Ala Ser Tyr Cys Pro Glu Val Val Glu Asp Gly Val Ala Asp					
	515		520		525
Gln Thr Asp Glu Gly Gly Ser Val Pro Val Ile Ile Ser Thr Ser					
	530		535		540
Arg Val Ser Ala Pro Ala Gly Gly Lys Ala Ser Trp Gly Ala Asp					
	545		550		555
Arg Ser Tyr Trp Lys Glu Phe Leu Val Met Cys Thr Leu Phe Val					
	560		565		570
Leu Ala Val Leu Leu Pro Val Leu Phe Leu Leu Tyr Arg His Arg					
	575		580		585
Asn Ser Met Lys Val Phe Leu Lys Gln Gly Glu Cys Ala Ser Val					
	590		595		600
His Pro Lys Thr Cys Pro Val Val Leu Pro Pro Glu Thr Arg Pro					
	605		610		615
Leu Asn Gly Leu Gly Pro Pro Ser Thr Pro Leu Asp His Arg Gly					
	620		625		630
Tyr Gln Ser Leu Ser Asp Ser Pro Pro Gly Ser Arg Val Phe Thr					

PF-0637 USN

				635					640					645
Glu	Ser	Glu	Lys	Arg	Pro	Leu	Ser	Ile	Gln	Asp	Ser	Phe	Val	Glu
				650					655					660
Val	Ser	Pro	Val	Cys	Pro	Arg	Pro	Arg	Val	Arg	Leu	Gly	Ser	Glu
				665					670					675
Ile	Arg	Asp	Ser	Val	Val									
				680										

<210> 26
<211> 137
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 4248993CD1

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Glu	His	Val	Leu	Gln	Val	Val	Gln	Arg	Asp	Phe	Asn	Leu	Arg	Lys
				20					25					30
Lys	Glu	Glu	Glu	Arg	Leu	Ser	Glu	Leu	Lys	Gln	Lys	Leu	Asp	Glu
				35					40					45
Glu	Gly	Ser	Lys	Cys	Ser	Ile	Leu	Ser	Lys	His	Gln	Gln	Phe	Val
				50					55					60
Glu	His	Cys	Cys	Met	Arg	Cys	Cys	Ser	Pro	Phe	Thr	Phe	Leu	Val
				65					70					75
Asn	Thr	Lys	Arg	Gln	Cys	Gly	Asp	Cys	Lys	Phe	Asn	Val	Cys	Lys
				80					85					90
Ser	Cys	Cys	Ser	Tyr	Gln	Lys	His	Glu	Lys	Ala	Trp	Val	Cys	Cys
				95					100					105
Val	Cys	Gln	Gln	Ala	Arg	Leu	Leu	Arg	Ala	Gln	Ser	Leu	Glu	Trp
				110					115					120
Phe	Tyr	Asn	Asn	Val	Lys	Ser	Arg	Phe	Lys	Arg	Phe	Gly	Ser	Ala
				125					130					135
Arg	Phe													

<210> 27
<211> 117
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 5402418CD1

Met	Lys	Phe	Gln	Tyr	Lys	Glu	Asp	His	Pro	Phe	Glu	Tyr	Arg	Lys
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Lys	Glu	Gly	Glu	Lys	Ile	Arg	Lys	Lys	Tyr	Pro	Asp	Arg	Val	Pro
				20					25					30
Val	Ile	Val	Glu	Lys	Ala	Pro	Lys	Ala	Arg	Val	Pro	Asp	Leu	Asp

PF-0637 USN

	35		40		45									
Lys	Arg	Lys	Tyr	Leu	Val	Pro	Ser	Asp	Leu	Thr	Val	Gly	Gln	Phe
	50								55					60
Tyr	Phe	Leu	Ile	Arg	Lys	Arg	Ile	His	Leu	Arg	Pro	Glu	Asp	Ala
	65								70					75
Leu	Phe	Phe	Phe	Val	Asn	Asn	Thr	Ile	Pro	Pro	Thr	Ser	Ala	Thr
	80								85					90
Met	Gly	Gln	Leu	Tyr	Glu	Asp	Asn	His	Glu	Glu	Asp	Tyr	Phe	Leu
	95								100					105
Tyr	Val	Ala	Tyr	Ser	Asp	Glu	Ser	Val	Tyr	Gly	Lys			
	110								115					

<210> 28

<211> 1058

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2417014CB1

<400> 28

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ccgctacaac	cacaaaaccg	acgtgacct	ctggcaccgg	agcaaccaca	gtaacgcgga	180
caatgaattt	tactttcgct	acccaaaaga	gtctcactct	gttgcccagg	ctggagtgc	240
acgacgcaat	ctcggctcac	tgcaaccttc	acctcccaga	tggagtttcg	ctcttgttgc	300
ccaggctgga	gtgcaatggc	acaatctcgg	ctcaccacaa	cctctgcctc	ccgggttcaa	360
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gtttgtcaca	ctgatgtttg	cctctgtggg	cgggggcctt	ggagggctcc	tgctgaagct	540
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tgctactagg	aagttctttt	tgagctccca	tctctccagc	tgcaagaagg	gagccatgag	780
ccagaaggag	gccccctttc	acaggcagcg	tctccacagg	gagaggggca	acaggaggct	840
gggaaatggt	ggggagtggg	gccgtaactg	ggtacaatag	ggggaacctc	accagatgcc	900
caaccgcact	gccctaccag	cctgcacatg	ggtagaagag	gccaaattga	ggcacccaag	960
tgatccactg	gccccacgtc	acacagttac	agtgaagccc	aagccaggcc	tggttgaggg	1020
tgataaacgc	cactgtgcgg	caccgcaaaa	aaaaaaaa			1058

<210> 29

<211> 2235

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2634931CB1

<400> 29

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cacagctttt	ggcctgagcc	cccgttacca	agagaaagga	ggttttttgc	aaggactcca	180


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aggggagtgct acttgatgct ggtcgggacc caaagcaccc agccctccct gagacattgt 240
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tgtgtgggta ggactttaaa tccagctgcc agacccttg acgggagaag gagagacggc 360
tggccaccat gcacggctcc tgcagtttcc tgatgcttct gctgccgcta ctgctactgc 420
tgggtggccac cacaggcccc gttggagccc tcacagatga ggagaaacgt ttgatggtgg 480
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cctgtgaaaa aaaaa 2235

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<210> 30

<211> 1559

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 110960CB1

<400> 30

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tacccaagcg gccaccggg cctcagggac cccttcccc agagacggca ccatgacca 180
gggaaagctc tccgtggcta acaaggcccc tgggaccgag gggcagcagc aggtgcatgg 240
cgagaagaag gaggctccag cagtgcctc agccccacc tcctatgagg aagccacctc 300
tggggagggg atgaaggcag gggccttccc cccagcccc acagcgggtc ctctccacc 360
tagctgggcc tatgtggacc ccagcagcag ctccagctat gacaacgggt tccccaccgg 420
agaccatgag ctcttcacca ctttcagctg ggatgaccag aaagtctcgtc gagtctttgt 480

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PF-0637 USN

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tgggatgctg tccagctact acaacaccac ctccgtgctg ctgtgcctgg gcacacggc 780
ccttgtctgc ctctcagtca ccgtcttcag cttccagacc aagtctgact tcacctctg 840
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cctcctaccc ttccaatatg tgccctggct ccatgcagtt tatgcagcac tgggagcggg 960
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<210> 31

<211> 876

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 380721CB1

<220>

<221> unsure

<222> 537, 585

<223> a, t, c, g, or other

<400> 31

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cagttgtctc tgatcacttg tgtggatttt cctggcgtag aacgacagaa gccgctagta 180
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gaagaggaga aactggaact gcagaggcgg ctggaggctc agaatcaaga aagaagaaaa 420
tccaagtcag gagcaggaaa aggtaaactg actcgcagtc ttgtgtctg tgaggaatct 480
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<211> 1521

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 829443CB1

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<213> Homo sapiens

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<400> 33

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PF-0637 USN

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<211> 1338

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 1554947CB1

<400> 34

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<212> DNA

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<211> 642

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 1878262CB1

<400> 36

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<211> 2536

<212> DNA

<213> Homo sapiens

<220>

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<223> Incyte ID No: 2253519CB1

<400> 37

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<212> DNA

<213> Homo sapiens

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<213> Homo sapiens

<220>

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<223> Incyte ID No: 3800639CB1

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PF-0637 USN

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<211> 2308

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<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 533825CB1

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PF-0637 USN

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<211> 1881
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<213> Homo sapiens

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cttgaacctg ggaggcggag gttgcagtga gccactgcac tccagcctga tgacagagca 1920
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<210> 44

<211> 1061

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 1871288CB1

<400> 44

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tcagatcatc atcatcgtgg tggatgatgat ggtgatgggt gtggtgatca cgtgcctgct 180
gagccactac aagctgtctg cacggctcct catcagccgg cacagccagg ggcggaggag 240
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cggaatccca gagccgcagg tctacgcccc gcctcggccc accgaccgcc tggccgtgcc 360
gcccttcgcc cagcgggagc gcttccaccg ctccagccc acctatccgt acctgcagca 420
cgagatcgac ctgccgccc ccatctcgct gtcagacggg gaggagcccc caccctacca 480
gggccctgac acctccagc ttccgggacc cgagcagcag ctggaactga accgggagtc 540
ggtgcgcgca ccccaaaaca gaaccatctt cgacagtgc ctgatggata gtgccaggct 600

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PF-0637 USN

```
gggcggcccc tgcccccca gcagtaacte gggcatcagc gccacgtgct acggcagcgg 660
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ctccttccag caccagcaga gcagtgggccc gccctccttg ctggagggga cccggctcca 780
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gaaaggacac cctctctagg gtccccaggg gggccgggct ggggctgcgt aggtgaaaag 900
gcagaacact ccgcgcttct tagaagagga gtgagaggaa ggcggggggc gcagcaacgc 960
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tgaatgcaca agctaagaga gcttgcaaaa aaaaaaaaaa a 1061
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<210> 45

<211> 505

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2587338CB1

<400> 45

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caggagccag cccatcaacc tgaaccatta cgccaccaag aagagcgtgg cggagagcat 180
gctggacgtg gccctgttca tgtccaacgc catgcggctg aaggcgggtg tggagcaggg 240
accatcctct cactactaca ccacctggt caccctcatc agcctctctc tgctcctgca 300
ggtggtcatc ggtgtcctgc tcgtggatcat tgcacggctg aacctgaatg aggtagaaaa 360
gcagtggcga ctcaaccagc tcaacaacgg cagccacatc ttggtcttct tctactgtgt 420
catcaatggt ttcatcacag gcttcggggc acataaaaca agggtcctgg cctgccagga 480
ctccaggaat cctctctgaa tggag 505
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<210> 46

<211> 1099

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 2821211CB1

<400> 46

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aataaaccaa aggacattat gtgtgcatgt gtgtataagt gcacacagaa atatataac 420
atatgtagac tatatacatg tgtgtatata tgtgtatata tacatacact tgtataaatg 480
tatatacaca tatacctata atgtgtgtat gtgtatttat tgaagaaaca gataccatac 540
tcatttctaa agaataattc agagaatatc aagatgattc tggctgaaaa aggccagtgg 600
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cacaggtgtg gtgtaattta taaaattaga aagcaactta tcagctactt aagagaaatg 780
gcaagttttg atatgagtat acaatatata aaaatatata tagtgctata tatataaata 840
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PF-0637 USN

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gtttttatga tatccctgat cctaactgaa gagacagtta tttatagtca tttattttaa 960
aaaatgaaaa taagtgaata ataattaggt taacattggt gtcacctgtg acaaaatttt 1020
ataagcaaat ttcaaaagac atgttgtaaa ttaggagggt caacaataaa acattatgct 1080
ccagaaaaaa aaaaaaaaaa                                     1099
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<210> 47
<211> 1727
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 2824832CB1

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<400> 47
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atggcggaca cgagatccgt gcacgagact aggtttgagg cggccgtgaa ggtgatccag 180
agtttgccga agaatggttc attccagcca acaaatgaaa tgatgcttaa attttatagc 240
ttctataagc aggcaactga aggacctgt aaactttcaa ggcttgatt ttgggatcct 300
attggaagat ataaatggga tgcttgaggt tcaactgggtg atatgaccaa agaggaagcc 360
atgattgcat atgttgaaga aatgaaaaag attattgaaa ctatgccaat gactgagaaa 420
gttgaagaat tgctgcgtgt cataggtcca ttttatgaaa ttgtcgagga caaaaagagt 480
ggcaggagtt ctgatataac ctacagatctt ggtaatgttc tcacttctac tccgaacgcc 540
aaaaccgtta atggtaaagc tgaaagcagt gacagtggag ccgagtctga ggaagaagag 600
gccaagaag aagtgaagg agcagaacaa agtgataatg atataaatga tgatcatgtt 660
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gtagtataca cagattttacc ctgcccttga acttgaagga cattaaatta ttaatgatca 1680
tttggttaaca tgtttacctg attatcttcc atagagtaac ataaggg                                     1727
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<210> 48
<211> 951
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<223> Incyte ID No: 3070147CB1

<400> 48

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gctgctgctt cgtgttcctg gtgcagggtg gcctctatct ggtcatctgt ggccaggatg 180
atggtcctcc cggctcagag gaccctgagc gtgatgacca cgagggccag ccccgggccc 240
gggtgcctcg gaagcggggc cacatctcac ctaagtcccg ccccatggcc aattccactc 300
tcctagggct gctggccccg actggggagg cttggggcat tcttgggcag cccccaacc 360
gcccgaacca cagcccccca ccctcagcca aggtgaagaa aatctttggc tggggcgact 420
tctactccaa catcaagacg gtggccctga acctgctcgt cacagggaag attgtggacc 480
atggcaatgg gaccttcagc gtccacttcc aacacaatgc cacaggccag ggaaacatct 540
ccatcagcct cgtgcccccc agtaaagctg tagagttcca ccaggaacag cagatcttca 600
tcgaagccaa ggctccaaa atcttcaact gccggatgga gtgggagaag gtagaacggg 660
gccgccggac ctgcctttgc acccacgacc cagccaagat ctgctcccga gaccacgctc 720
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<210> 49

<211> 1624

<212> DNA

<213> Homo sapiens

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<221> misc_feature

<223> Incyte ID No: 3271841CB1

<400> 49

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cacctgcctg tcccatacgc cccgcccacc atggagtcca gaggggaagtc agccagcagc 180
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ccctccttag cacatccagt cccagcgtgg cccttggcgc gcagcagcag gcgaactccc 1500
agaaggtggt ggtgggcact gtgagaacgt ggccctgcct cactggccag tggccacagg 1560

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PF-0637 USN

aacccccgggc ctgagtggag gctgagtctg aaataaaactc tgctgctctga aaaaaaaaaa 1620
aaaa 1624

<210> 50

<211> 2080

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3537827CB1

<400> 50

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<210> 51

<211> 1420

<212> DNA

<213> Homo sapiens

PF-0637 USN

<220>

<221> misc_feature

<223> Incyte ID No: 3729267CB1

<400> 51

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ctttgtaaga cgatctctgt ggcaaggcta gaaaagcaca agaatttggt cttaaattat 180
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<210> 52

<211> 2703

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 3768771CB1

<220>

<221> unsure

<222> 374

<223> a, t, c, g, or other

<400> 52

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ccgctcagcg cagntcacct gttcacctgt ggcacagcag ccttcagccc catgtgtacc 420
tacatcaaca tggagaactt caccctggca agggacgaga aggggaatgt cctcctggaa 480
gatggcaagg gccgttgtcc ctctgaccgc aatttcaagt ccactgcct ggtggttgat 540
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<210> 53

<211> 571

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<223> Incyte ID No: 4248993CB1

<400> 53

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caccagcagt ttgtggagca ctgctgcatg cgctgctgct cgcccttcac ctctctcgtc 240
aacaccaagc gccagtgtgg agattgcaaa ttcaatgtct gcaagagctg ctgctcctac 300
cagaagcacg aaaaggcctg ggtctgctgc gtctgccagc aagcgaggct tctgagggcc 360

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PF-0637 USN

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<210> 54
<211> 1293
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
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<400> 54

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acagggctcag cggcgaagga ggcaggcccc gcgcggggat ctcggaagcc ctgcggtgca 240
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<210> 55
<211> 375
<212> PRT
<213> Homo sapiens

<220>
<221> misc_feature
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<400> 55

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Ile	Ser	Ala	His	Arg	Asn	Leu	Arg	Leu	Pro	Gly	Ser	Ser	Asp	Ser
				20					25					30
Pro	Ala	Ser	Ala	Ser	Pro	Val	Ala	Gly	Ile	Thr	Gly	Met	Cys	Thr
				35					40					45

PF-0637 USN

His	Ala	Arg	Leu	Ile	Leu	Tyr	Phe	Phe	Leu	Val	Glu	Met	Glu	Phe	
				50					55					60	
Leu	His	Val	Gly	Gln	Ala	Gly	Leu	Glu	Leu	Pro	Thr	Ser	Asp	Asp	
				65					70					75	
Pro	Ser	Val	Ser	Ala	Ser	Gln	Ser	Ala	Arg	Tyr	Arg	Thr	Gly	His	
				80					85					90	
His	Ala	Arg	Leu	Cys	Leu	Ala	Asn	Phe	Cys	Gly	Arg	Asn	Arg	Val	
				95					100					105	
Ser	Leu	Met	Cys	Pro	Ser	Trp	Ser	Pro	Glu	Leu	Lys	Gln	Ser	Thr	
				110					115					120	
Cys	Leu	Ser	Leu	Pro	Lys	Cys	Trp	Asp	Tyr	Arg	Arg	Ala	Ala	Val	
				125					130					135	
Pro	Gly	Leu	Phe	Ile	Leu	Phe	Phe	Leu	Arg	His	Arg	Cys	Pro	Thr	
				140					145					150	
Leu	Thr	Gln	Asp	Glu	Val	Gln	Trp	Cys	Asp	His	Ser	Ser	Leu	Gln	
				155					160					165	
Pro	Ser	Thr	Pro	Glu	Ile	Lys	His	Pro	Pro	Ala	Ser	Ala	Ser	Gln	
				170					175					180	
Val	Ala	Gly	Thr	Lys	Asp	Met	His	His	Tyr	Thr	Trp	Leu	Ile	Phe	
				185					190					195	
Ile	Phe	Ile	Phe	Asn	Phe	Leu	Arg	Gln	Ser	Leu	Asn	Ser	Val	Thr	
				200					205					210	
Gln	Ala	Gly	Val	Gln	Trp	Arg	Asn	Leu	Gly	Ser	Leu	Gln	Pro	Leu	
				215					220					225	
Pro	Pro	Gly	Phe	Lys	Leu	Phe	Ser	Cys	Pro	Ser	Leu	Leu	Ser	Ser	
				230					235					240	
Trp	Asp	Tyr	Arg	Arg	Pro	Pro	Arg	Leu	Ala	Asn	Phe	Phe	Val	Phe	
				245					250					255	
Leu	Val	Glu	Met	Gly	Phe	Thr	Met	Phe	Ala	Arg	Leu	Ile	Leu	Ile	
				260					265					270	
Ser	Gly	Pro	Cys	Asp	Leu	Pro	Ala	Ser	Ala	Ser	Gln	Ser	Ala	Gly	
				275					280					285	
Ile	Thr	Gly	Val	Ser	His	His	Ala	Arg	Leu	Ile	Phe	Asn	Phe	Cys	
				290					295					300	
Leu	Phe	Glu	Met	Glu	Ser	His	Ser	Val	Thr	Gln	Ala	Gly	Val	Gln	
				305					310					315	
Trp	Pro	Asn	Leu	Gly	Ser	Leu	Gln	Pro	Leu	Pro	Pro	Gly	Leu	Lys	
				320					325					330	
Arg	Phe	Ser	Cys	Leu	Ser	Leu	Pro	Ser	Ser	Trp	Asp	Tyr	Gly	His	
				335					340					345	
Leu	Pro	Pro	His	Pro	Ala	Asn	Phe	Cys	Ile	Phe	Ile	Arg	Gly	Gly	
				350					355					360	
Val	Ser	Pro	Tyr	Leu	Ser	Gly	Trp	Ser	Gln	Thr	Pro	Asp	Leu	Arg	
				365					370					375	

<210> 56

<211> 219

<212> PRT

<213> Homo sapiens

<220>

<221> misc_feature

<223> GenBank ID No: g847722

<400> 56

Met	Val	Ser	Phe	Val	Ser	Asn	Tyr	Ser	His	Thr	Ala	Asn	Ile	Leu
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Pro	Asp	Ile	Glu	Asn	Glu	Asp	Phe	Ile	Lys	Asp	Cys	Val	Arg	Ile
				20					25					30
His	Asn	Lys	Phe	Arg	Ser	Glu	Val	Lys	Pro	Thr	Ala	Ser	Asp	Met
				35					40					45
Leu	Tyr	Met	Thr	Trp	Asp	Pro	Ala	Leu	Ala	Gln	Ile	Ala	Lys	Ala
				50					55					60
Trp	Ala	Ser	Asn	Cys	Gln	Phe	Ser	His	Asn	Thr	Arg	Leu	Lys	Pro
				65					70					75
Pro	His	Lys	Leu	His	Pro	Asn	Phe	Thr	Ser	Leu	Gly	Glu	Asn	Ile
				80					85					90
Trp	Thr	Gly	Ser	Val	Pro	Ile	Phe	Ser	Val	Ser	Ser	Ala	Ile	Thr
				95					100					105
Asn	Trp	Tyr	Asp	Glu	Ile	Gln	Asp	Tyr	Asn	Phe	Lys	Thr	Arg	Ile
				110					115					120
Cys	Lys	Lys	Val	Cys	Gly	His	Tyr	Thr	Gln	Val	Val	Trp	Ala	Asp
				125					130					135
Ser	Tyr	Lys	Val	Gly	Cys	Ala	Val	Gln	Phe	Cys	Pro	Lys	Val	Ser
				140					145					150
Gly	Phe	Asp	Ala	Leu	Ser	Asn	Gly	Ala	His	Phe	Ile	Cys	Asn	Tyr
				155					160					165
Gly	Pro	Gly	Gly	Asn	Tyr	Pro	Thr	Trp	Pro	Tyr	Lys	Arg	Gly	Ala
				170					175					180
Thr	Cys	Ser	Ala	Cys	Pro	Asn	Asn	Asp	Lys	Cys	Leu	Asp	Asn	Leu
				185					190					195
Cys	Val	Asn	Asp	Ser	Glu	Thr	Lys	Ser	Asn	Val	Thr	Thr	Met	Leu
				200					205					210
Tyr	Ile	Arg	Leu	Ala	His	Ile	Ser	Thr						
				215										